

**Listing and Amendments of Claims:**

Please cancel claims 1-3 and 12-19, without prejudice. This listing of claims will replace all prior versions, and listings, of claims in the application:

1-3. (Cancelled)

4. (Previously Presented) A brush suitable for use in facilitating cleaning of a passageway defined by a medical device, the brush comprising:

- (a) an atraumatic tip having proximal and distal ends;
- (b) a fill wire having proximal and distal ends and including a fill section, said distal end of said fill wire being connected to said proximal end of said atraumatic tip;
- (c) a shaft having proximal and distal ends, said distal end of said shaft being connected to said proximal end of said fill wire;
- (d) an inner sheath covering a portion of said fill wire;
- (e) an outer sheath covering at least said inner sheath and a portion of said shaft; and
- (f) proximal and distal connector sleeves, at least a portion of said proximal end of said fill wire and at least a portion of said distal end of said shaft being received and retained in said proximal connector sleeve, and at least a portion of said distal end of said fill wire and at least a portion of said proximal end of said atraumatic tip being received and retained in said distal connector sleeve.

5. (Previously Presented) The brush as recited in claim 4, wherein at least said shaft is substantially composed of a memory alloy.

6. (Previously Presented) The brush as recited in claim 5, wherein said memory alloy comprises a nickel-titanium alloy.

7. (Previously Presented) The brush as recited in claim 4, wherein said atraumatic tip comprises a core wire and a coil, said coil being disposed about said core wire and bonded thereto.

8. (Previously Presented) The brush as recited in claim 7, wherein at least said coil is substantially composed of a radio-opaque material.

9. (Previously Presented) The brush as recited in claim 8, wherein said coil comprises gold-plated tungsten.

10. (Previously Presented) The brush as recited in claim 7, wherein said core wire is substantially composed of a memory alloy.

11. (Previously Presented) The brush as recited in claim 10, wherein said memory alloy comprises a nickel-titanium alloy.

12-19. (Cancelled)

20. (Previously Presented) A system suitable for use in conjunction with performance of medical procedures, the system comprising:

- (a) a medical device defining at least one passageway; and
- (b) a brush configured to be at least partially received within said at least one passageway defined by said medical device, said brush comprising:
  - (i) an atraumatic tip having proximal and distal ends;
  - (ii) a fill wire having proximal and distal ends and including a fill section, said distal end of said fill wire being connected to said proximal end of said atraumatic tip;
  - (iii) a shaft having proximal and distal ends, said distal end of said shaft being connected to said proximal end of said fill wire;
  - (iv) an inner sheath covering a portion of said fill wire; and
  - (v) an outer sheath covering at least said inner sheath and a portion of said shaft; and
  - (vi) proximal and distal connector sleeves, at least a portion of said proximal end of said fill wire and at least a portion of said distal end of said shaft being received and retained in said proximal connector sleeve, and at least a portion of said distal end of said fill wire and at least a portion of said proximal end of said atraumatic tip being received and retained in said distal connector sleeve.

21. (Cancelled)

22. (Previously Presented) A system suitable for use in conjunction with performance of medical procedures, the system comprising:

- (a) a medical device defining at least one passageway; and
- (b) a brush configured to be at least partially received within said at least one passageway defined by said medical device, said brush comprising:
  - (i) an atraumatic tip having proximal and distal ends, wherein said atraumatic tip comprises a core wire and a coil, said coil being disposed about said core wire and bonded thereto;
  - (ii) a fill wire having proximal and distal ends and including a fill section, said distal end of said fill wire being connected to said proximal end of said atraumatic tip;
  - (iii) a shaft having proximal and distal ends, said distal end of said shaft being connected to said proximal end of said fill wire;
  - (iv) an inner sheath covering a portion of said fill wire; and
  - (v) an outer sheath covering at least said inner sheath and a portion of said shaft.

23. (Previously Presented) The system as recited in claim 22, wherein at least said core wire is substantially composed of a memory alloy.

24. (Previously Presented) The system as recited in claim 22, wherein at least said coil is substantially composed of a radio-opaque material.

25. (Previously Presented) A brush suitable for use in facilitating cleaning of a passageway defined by a medical device, the brush comprising:

- (a) an atraumatic tip having proximal and distal ends and including a core wire and coil, said coil being disposed about said core wire and bonded thereto, and said traumatic tip including a bulb disposed about said distal end;
- (b) a fill wire comprising a plurality of braided wires and having proximal and distal ends, and said fill wire including a fill section;
- (c) a distal connector sleeve, at least a portion of said distal end of said fill wire and at least a portion of said proximal end of said atraumatic tip being received and retained in said distal connector sleeve, and said distal connector sleeve being bonded to said coil;
- (d) a shaft having proximal and distal ends;
- (e) a proximal connector sleeve, at least a portion of said proximal end of said fill wire and at least a portion of said distal end of said shaft being received and retained in said proximal connector sleeve;
- (f) an inner sheath covering a portion of said fill wire; and
- (g) an outer sheath covering at least said inner sheath, said proximal connector sleeve, and a portion of said shaft.

26. (Previously Presented) The brush as recited in claim 25, wherein at least said coil is substantially composed of gold-plated tungsten.

27. (Previously Presented) The brush as recited in claim 25, wherein at least said core wire is substantially composed of NiTiNOL.

28. (Previously Presented) The brush as recited in claim 25, wherein at least said shaft is substantially composed of NiTiNOL.

29. (Previously Presented) The brush as recited in claim 25, wherein said plurality of braided wires is substantially composed of stainless steel.

30. (Previously Presented) The brush as recited in claim 25, wherein said proximal and distal connector sleeves are substantially composed of stainless steel.

31. (Previously Presented) The brush as recited in claim 25, wherein said bulb is substantially composed of epoxy.

32. (Previously Presented) The brush as recited in claim 25, wherein at least said inner sheath is substantially composed of polytetrafluoroethylene.

33. (Previously Presented) The brush as recited in claim 25, wherein at least said outer sheath is substantially composed of polytetrafluoroethylene.

34. (Previously Presented) The brush as recited in claim 25, wherein said core wire is tapered.

35. (Previously Presented) The brush as recited in claim 25, wherein said fill section is tapered.